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//[猜數字遊戲的提示/Master-Mind Hints]
#define IN "P0308IN.txt"
#define OUT "P0308OUT.txt"
//*************
#include <iostream>
#include <time.h>
using namespace std;
void redir(void);
//**************
/* Work Space*/
//**************
int main(void)
   redir(); //redirection
//***********************
/* Work Space*/
   int n:
   int kase = 0;
   int i;
   int a[1000], b[1000];
   int A, B;
   int d, c1, c2;
   while(scanf("%d", &n) == 1 && n){
       printf("Game %d\n", ++kase);
       for(i=0; i< n; i++){
          scanf("%d", &a[i]);
       }
      while(1){
          A = B = 0;
          for(i=0; i< n; i++){
             scanf("%d", &b[i]);
              if(a[i] == b[i]) A++; //直接統計可得A
          if(b[0] == 0) break; //正常的猜測序列不會有0
          for(d=1; d \le 9; d++){
             c1 = c2 = 0;
              for(i=0; i<n; i++){ //對每個數字(1-9), 統計二者出現的次數c1和c2
                 if(a[i] == d) c1++;
                 if(b[i] == d) c2++;
              if(c1 <= c2){ //min(c1, c2)就是該數字對B的貢獻
                 B += c1;
              }else{
                 B += c2;
          printf("
                    (%d,%d)\n", A, B-A); //最後要減去A的部分
       }
//************
   freopen("CON", "r", stdin); //取消重新導向
   freopen("CON", "w", stdout);
   printf("Time used = %.2f\n", (double)clock()/CLK_TCK); //傳回程式目前為止執行的時間
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